2007 Highways and Engineering Conference

February 6-8, 2007 Schedule of Events



NOTE:

MDT ONLY- means only MDT/FHWA persons may attend session- this includes Tuesday the general session

All participants- means the session is geared toward both preconstruction/design and construction/field issues

Preconstruction/design participants- means the session is geared more towards preconstruction/design issues

Check out the SiteManager Demonstrations in Bitterroot River Room A

- · Tuesday, February 6th
- Wednesday & Thursday, February 7-8th

1:00-5:00 pm

all day



2007 Highways and Engineering Conference Schedule of Events



Room A

Monday February 5, 2007

	1:00 -5:00	SiteManager Demos		Bitterroot River
		Research Program Overview -explain all programs in Research; research projects, experimental projects, the library program and technology transfer.	Craig Abernathy	Parlor G
		Montanan's Comprehensive Safety Plan Overview- an informational presentation on the recently developed Montana Comprehensive Highway Safety Plan. This plan is a requirement of SAFETEA LU to allow for funding flexibility that must be data driven and comprehensive. The plan is a cooperative effort of multiple agencies and safety stakeholders to reduce the number and severity of crashes in the state.	Duane Williams Carol Strizich	Parlor D
	3:15-4:40 or 5:00	District Meetings		D1- Parlor A D2- Parlor B D3- Parlor C D4- Parlor F D5- Parlor E
	2:50 - 3:15	BREAK		
	2:00-2:50	Work Zone Safety and Mobility- New Considerations	Lloyd Rue Mark Baum Lesly Tribelhorn	FHWA
	1:00-1:50	Code of Conduct	Steve Garrison	
	12:00 - 1:00	Lunch with Keynote Speaker	Henry Shovic	Safe Living, Inc.
	11:30-12:00 pm	Interstate 50th Year Presentation	Lloyd Rue	FHWA
	10:30-11:30	Legal Issues and E-mail Procedures	Steve Garrison	
	10:15 - 10:30	BREAK		
9:00-10:15 am		Opening Comments and Welcome	MDT/FHY	WA ONLY
8:00	o am -4:00 pm	Registration/check-in and information	Missoula Confere Rotunda	nce Center
Tuesd	lay February	6, 2007	MDT/FHV	WA ONLY
	2:30-4:30 pm	Early registration/check-in	Missoula Confere Rotunda	nce Center

2007 Highways and Engineering Conference

Schedule of Events



Wednesday February 7, 2007

8:00 am -4:00 pm	Registration/check-in and information		Missoula Cor Center Rotur	
8:00-8:50 am	A Kick in the Ash: Archaeological Excavation of Site 24PW308- learn about this site in Powell County.	Steve Platt		Parlor B
	All participants			
	Guardrail Basics for Construction and Design- review all types of guardrail (cable, wbeam, concrete barrier, and box beam) used in Montana. Also review terminal end sections and bridge approach sections. Review proper selection of guardrail for use in the field.	Scott Keller		Parlor F
	All participants			
8:00-9:50	Weeksville West Blasting and Rock Bolting- overview of the Weeksville West project and the blasting involved.	Larry Prinki John Benda		Parlor A
	Construction participants			
MDT ONLY	Bridge Construction Inspection - inspection of all phases of bridge construction.	Fred Beal Mark Kurokowa		Parlor C
	Construction participants			
MDT ONLY	Survey Issues Roundtable - presentation on the Merits of Robotic Total Stations vs. RTK. A question & answer session on any survey related issue.	Dave Davis Ralph Jones John Hoechst Rob Mihalovich Mark Iwaniak Mark Roedel		Parlor D
	All participants	Mick Brown		
	Federal Aid 101- FHWA overview, Federal-Aid ineligible items, FHWA full oversight vs. non-full oversight.		FHWA FHWA FHWA	Parlor E
	All participants			
	Specifying Concrete for High Performance- this presentation proposes the use of performance-based specifications for concrete construction as an alternative to traditional prescriptive specifications. It demonstrates how performance-based specifications encourage innovation, cost effective construction, and quality control. An introduction to High Performance Concrete (HPC) including state-of-the-art products such as self-consolidating concrete, high strength concrete, and high-early strength concrete is presented. A sample performance-based specification is introduced.	Lionel Lemay	National Ready Mixed Concrete Association	Parlor G

Preconstruction/design participants

	Jan 3-33-3, 7, 1 = 2 = 7			
8:00-9:50 am	Trns*Port Orientation- an overview of the Trns*port modules and how they work together as well as a high-level overview of SiteManager (both Construction and Materials).	Lori Stanich		Bitterroot River Rms B & C
	Construction participants			
9:00-9:50	Impacts of ROW Fencing on Wildlife Movement	Larry Sickerson Pat Basting		Parlor B
MDT ONLY	All participants	Deb Wambach		
	MDT Engineering Applications: Tools that Help the Design Become the Roaditems covered will include: features, hints and tricks for using the MDT Engineering Applications, current/planned enhancements, and solicitation of input for potential future enhancements.	Tim Boucher Riley Phelps		Missoula District Const. Conference Room
	Construction participants			
9:00- 11:50 (3 hr. class)	Guardrail Design- review basic design philosophy for all types of guardrail (cable, w-beam, concrete barrier, and box beam) used in Montana, including terminal end sections and bridge approach sections. Review basic design parameters (clear zones, rail deflection upon impact, snow drifting, costs, etc.) and proper selection of guardrail for use in the field. Review the importance of the widening behind the guardrail posts and what to do if the widening is not obtainable. Explain the use of special guardrail design items such as anchored concrete barrier rail, stiffened rail sections, impact attenuators, and bridge approach sections.	Scott Keller		Parlor F
	Preconstruction participants			
9:50 - 10:00	BREAK	BREAK		
10:00-10:50	Work Zone Traffic Control: Lessons Learned in 2006- a summary of the statewide review of traffic control on MDT projects in 2006.	Lloyd Rue Mark Baum	FHWA	Parlor B
	Construction participants	-		n 1 G
	MicroStation Custom Programs for MDT -demonstrate the MDT macros and VBA's used to create plans for all the design areas.	Bob Cummings		Parlor C
	Preconstruction participants			
10:00-11:50 <i>MDT ONLY</i>	MSE Walls- topics included in this presentation are state-of-the-practice design tools and construction practices to for mechanically stabilized earth technology for routine use of cost-effective earth retention structures.	Brian Collins		Parlor A
	Construction participants Specifications: Cuss and Discuss this session	Lisa Durbin		Parlor D
	Specifications: Cuss and Discuss - this session will be an ongoing set of informal discussions on various specifications.	Dan Smith Stefan Streeter		ranor D
	Construction participants			

10:00-11:50	Subsurface Utility Engineering (SUE): Strategic Approach for MDT Design Bid Build Projects- this session will explain the SUE process and strategy for design bid build projects and the responsibility of the designer. Specific examples of projects in Utah, Montana, and Minnesota where SUE expedited the process will be covered. Preconstruction participants	Phillip J. Meis	Utility Mapping Services, Inc.	Parlor E
	Environmental Permitting: Preconstruction thru Construction	Bill Semmons Tom Gocksch Ray Studebaker		Parlor G
	All participants	Kay Studebaker		
MDT ONLY	Pile Driving Inspection: Preparation Tips, Saximeter Operation, and Recording and Data Transmittal- several areas will be covered including the following: inspecting plans, piles, and paperwork; inspecting templates before driving; pile driving safety; saximeter operation and recording; and a question and answer period.	Tony Cerovski		Bitterroot River Rms B & C
	Construction participants			
	OPX2 for New Users- a hands on training session.	John Pirre Shane Maharg		Missoula District Const.
	All participants			Conference Room
11:00- 11:50	US 2 Havre Reconstruction Project: Construction Traffic Management- this presentation will touch on new FHWA regulations on Work Zone Safety and Mobility, coordination program with local agencies and business owners, traffic phasing and management plan design, and specific construction constraints and challenges.	John Pavsek	Morrison- Maierle, Inc.	Parlor B
	All participants	_		
MDT ONLY	Administering Highway Construction Contracts: Environmental Concerns	Lyle Manley		Parlor C
	Construction participants			
12:00 - 1:00 pm	Lunch - on your own			
1:00-1:50	Research Program Overview -explain all programs in Research; research projects, experimental projects, the library program and technology transfer.	Craig Abernathy		Parlor C
	All participants			
	OPX2 for Managers Preconstruction participants	John Pirre Shane Maharg		Bitterroot River Rms B & C
1:00-5:00 (4 hr. class)	Data Collector Templates - a hands-on class where you will be building Road Templates with the TDS Ranger.	Jim Day Susan Foreman		Parlor A
MDT ONLY	Construction participants- Each Participant Should Bring A Data Collector If Possible.			

1:00-2:50 <i>MDT ONLY</i>	Four Elements of Right-of- Way- an overview and panel discussion on design, access control, utilities, and railroad. All participants	Greg Hahn Jim Mullins Greg Pizzini Steve Giard Bill Duede		Parlor B
	SAFETEA-LU Panel Discussion- panel discussion to explain and answer questions on the changes under SAFETEA-LU All participants	Ted Burch Jean Riley Jim Skinner Duane Williams Lynn Zanto	FHWA	Parlor E
	Bailey Method: A Tool to Analyze Asphalt Mix Designs	Scott Barnes PJ Shea		Parlor F
	Construction participants			
	Safe Living: Self Protection for Those Working with the Public- the principles of Safe Living (Awareness, Confidence, Training, and Support Networks) are universal. Dr. Shovic developed them using the life-skills of people who take risks for a living: firefighters, martial artists, soldiers, law enforcement officers, and medical personnel. Each seminar is an integrated, solution-centered package, blending information-sharing, scenario-building, "hands-on" training, and participant-sharing.	Henry Shovic, PhD	Safe Living Seminars, LLC	Parlor G
	All participants	·		
	MDT's New Quality Assurance Software Suite: Tools to Support the Quality Inspection Process- this class will cover the process flow for using the new MDT QA Software Suite including contract file creation (selecting material items and personnel), contract file test specification creations (setting, editing, reviewing and locking material item tests and test specifications), and test data operations (test data entry, locking, and results reporting).	Tim Boucher Riley Phelps		Missoula District Const. Conference Room
	Construction participants			
1:00-3:50 (3 hr. class)	Earthworks and Mass Diagrams- this session will give participants a better understanding of mass diagrams; a method to graphically represent the amount of material that will be cut and used for fill on any earth work job.	Clay Blackwell Damian Krings		Parlor D
	All participants			
2:00-2:50	The Municipal Storm Water Program: MDT's Commitments and Obligations- the session will be an introduction to the new MS4 (Municipal Separate Storm Sewer System) program, how it affects the department, and what we need from everyone in order to comply.	Stacy Hill		Parlor C
	Preconstruction participants			
	OPX2: Tips and Tricks Preconstruction participants	John Pirre Shane Maharg		Bitterroot River Rms B & C

3:00-3:50	US 93 Mud Creek Structures- this session will cover vertical drain design, preloading, and construction monitoring of settlement.	Marco Fellin Rich Dombrouski	TetraTech, Inc.	Parlor C
	All participants	Tom Ritz	Carter Burgess	
	MDT Engineering Applications: Tools that Help the Design Become the Roaditems covered will include: features, hints and tricks for using the MDT Engineering Applications, current/planned enhancements, and solicitation of input for potential future enhancements.	Tim Boucher Riley Phelps		Missoula District Const. Conference Room
	Construction participants			
3:00- 5:00	Permanent Erosion and Sediment Control Design Manual- the presentation is for a new design manual implementing permanent erosion and sediment control measures.	Jake Goettle Dan Ham		Parlor B
	Construction participants			
MDT ONLY	How Subgrade Construction Requirements Relate to Surface Design- this class will explain how MDT comes up with a surfacing design and how various subgrade and surfacing construction requirements relate to the design. Specifically R-Value vs. Soils Class, compaction, special borrow, and gravel cure.	Matt Strizich Bob Weber Dan Hill Bill Henning		Parlor E
	Construction participants			
	New Geopak Criteria- demonstrate the new rewrite of MDT Geopak Criteria using the latest Geopak and Criteria enhancements. Use the Design and Computation Manager to place elements and manipulate cross sections.	Bob Cummings		Parlor F
	Preconstruction participants			
	Safe Living: Preventing and Mitigating Workplace Violence- the principles of Safe Living (Awareness, Confidence, Training, and Support Networks) are universal. This seminar is an integrated, solution-centered package, blending information-sharing, scenario-building, "hands-on" training, and participant-sharing.	Henry Shovic, PhD	Safe Living Seminars, LLC	Parlor G
	All participants			
MDT ONLY	Pile Driving Inspection: Preparation Tips, Saximeter Operation, and Recording and Data Transmittal- several areas will be covered including the following: inspecting plans, piles, and paperwork; inspecting templates before driving; pile driving safety; saximeter operation and recording; and a question and answer period.	Tony Cerovski		Bitterroot River Rms B & C
	Construction participants			

4:00-4:50

Truss Rehab Projects in Montana- Lessons Learned- HDR Engineering performed rehab design for three historic truss bridges in Montana. Two of these were constructed before 1900 and one was constructed using Italian prisoners of war as labor. Restoring these bridges offered unique challenges including maintaining the historic character of the bridges, finding existing plans, finding physical properties of old members, heat shortening, straightening and repair, reconstruction of badly deteriorated built-up steel members, special iacking methods for light member trusses without end floor-beams, bearing solutings, removal and over coating of old lead based paint, attaching AASHTO rated rail to light timber decking, concrete repair, and encasement and replacement of concrete columns.

Brad Miller HDR Parlor D
Dustin Hirose Engineering

All participants

Quantm Route Optimizing Software Studythe Colorado Department of Transportation in cooperation with the Federal Highway Administration conducted an independent study to evaluate the usefulness of the Quantm system for planning transportation improvements. The Quantm system includes proprietary route optimization software that can be used to develop and screen highway alternatives based on a wide range of engineering design parameters and environmental data. The results of the study found that Quantm can provide substantial benefits to highway projects that have at least one of the following characteristics: 1) an opportunity to optimize cut/fill to save construction costs, or 2) an opportunity to develop new alignments that do not strictly follow an existing route. The study outlined the major data sets that are needed for successful implementation of the system and tested the results by directly importing the outputs into commonly available roadway design software.

Brian Werle Carter Parlor C Brann Gregor Burgess Jim Krogman

Preconstruction participants

3:00 pm - 6:00 pm

US 93 Wildlife ROW Fencing/Crossings Tour Size Limit- 45 participants



8:00 am -3:00 pm	Registration/check-in and information		Missoula Conf Center Rotund	
8:00-8:50 am	Manintenace Panel Discussion on Post Construction Issues	John Blacker Jon Swartz Doug Moeller		Parlor C
	Construction participants	Doug Moener		
	The Consultant's Role in Construction: Columbus South- a case study of the Columbus – South Project and the involvement of the consultant designers in the construction process.	John Shoff Wade Irion Greg Gabel	НКМ	Parlor F
	Construction participants			
	US 93 Mud Creek Structures- this session will cover vertical drain design, preloading, and construction monitoring of settlement.	Marco Fellin Rich Dombrouski	TetraTech, Inc.	Bitterroot River Rms B & C
	All participants	Tom Ritz	Carter Burgess	
8:00- 9:50	Portland Cement Concrete Pavement (PCCP)- concrete/cement topics that include a brief discussion about the history of concrete and cement, and cement chemistry (how cement works in concrete). How concrete mix designs and pavement slab design and construction practices relates to long-term durability. Discuss flat slab and PCCP problems and concerns, along with discussing joint spacing during design and construction. Other topics discussed include concrete intersections, introducing new technology and effects of salt on new concrete.	Jim Powell Jim Tobin	NW Chapter of the American Concrete Pavement Association	Parlor A
	All participants			
	Cold In-place Recycling, Slurry Seals, and Microsurfacing- cold in-place recycling, slurry seals, and microsurfacing are cost effective	Chuck Valentine	Valentine Surfacing	Parlor B
	alternatives for scheduled and preventative maintenance projects. Cold in-place recycling (CIPR) is an alternative to asphalt overlay or mill and fill treatments on low-volume roads. CIPR has been used by the Maintenance Division, and will be used by the Engineering Division on a few projects next construction season. Slurry sealing is a more durable alternative to chip sealing. Micosurfacing is an alternative to plant mix seals or chip seals on high-volume roads and can also be used for rut filling. This presentation will given by experts from the industry.	Pierre Peltier	SemMaterials, L.P.	
	All participants			
	Change Order and Contract Final Procedures- the first part will review the process it takes to generate a change order, as well as provide some tools to assist in tracking the change orders and making sure all requirements are considered and met. The second part, will review the process of finaling and closing a project from the field through headquarters, and the requirements that were implemented in contracts in August of 2004.	Lisa Durbin Terry McDonald		Parlor D

Construction participants

8:00- 9:50	Conveniences Sorely Needed: A History of Montana's Highway Bridges- this presentation will provide a brief, illustrated overview of the history of bridge construction in Montana from 1860 when John Mullan built the first bridges in the state up to the dawn of the Interstate era in 1956. All participants	Jon Axline		Parlor E
	Safe Living: Preventing & Mitigating Workplace Violence- the principles of Safe Living (Awareness, Confidence, Training, and Support Networks) are universal. This seminar is an integrated, solution-centered package, blending information-sharing, scenario-building, "hands-on" training, and participant-sharing.	Henry Shovic, PhD	Safe Living Seminars, LLC	Parlor G
	All participants			
9:00-9:50	Guardrail Basics for Construction and Design- review all types of guardrail (cable, wbeam, concrete barrier, and box beam) used in Montana. Also review terminal end sections and bridge approach sections. Review proper selection of guardrail for use in the field.	Scott Keller		Parlor C
	All participants			
	Noise Modeling and Bridge Solutions on the Kalispell Bypass	Mitch Stelling Jason Giard Kathy Harris	Stelling Engineering	Parlor F
	Preconstruction participants	Brian Werle Cora Helm	Carter Burgess	
	MDT's Library Program Overview - explain the program in detail. How it works, the benefits and logistics. All topics defined with examples of each.	Lisa Autio		Bitterroot River Rms B & C
	All participants			
	MDT Engineering Applications: Tools that Help the Design Become the Roaditems covered will include: features, hints and tricks for using the MDT Engineering Applications, current/planned enhancements, and solicitation of input for potential future enhancements.	Tim Boucher Riley Phelps		Missoula District Const. Conference Room
	Construction participants			
9:50 -10:00	Break	BREAK		
10:00-10:50	Contract Time Determination - the class will discuss a process to determine contract time. It will include a review of a typical project sequence, average production rates and factors that affect contract time.	Paul Ferry Lisa Durbin		Parlor D
	Preconstruction participants			
	Bridges and Circles: Intersections with the Kalispell Bypass	Mitch Stelling Jason Giard Kathy Harris	Stelling Engineering	Parlor F
	Preconstruction participants	Mary Stelling Dwane Kailey		

10:00-10:50	CAS Cards - an Oracle application that provides easy access to high-level contract information from when	Margaret Brockhaus		Missoula District	
	the contract is awarded until the contract is closed. It is integrated with DSS, PPMS, Project Master Card System, and the new Claim Tracking System.	Jeff Kirby		Const. Conference Room	
	Construction participants				
10:00-11:50	Weeksville West Blasting and Rock Bolting- overview of the Weeksville West project and the blasting involved.	Larry Prinkki John Benda		Parlor A	
	Construction participants				
	Uses for Asphalt Cements and Emulsified Asphalts	Al Hobbs	Montana Refining Company	Parlor B	
	Construction participants	_	Company		
	Questions on Consultant Plans - how to address questions that arise during construction on plans designed by Consultants.	Tim Conway Miki Lloyd Mark Cyr Jim Mitchell		Parlor C	
	Construction participants	- Will Witterien			
	Learn to Know, Understand and Love Your BMPs and Much More- this session will cover construction BMPs, applications, what is working, what isn't working, dos, don'ts, and a discussion about BMPs and the general permit requirements.	Stacy Aguirre		Parlor E	
	Bonus: There will be a "name that BMP and artist" component to this presentations; the presentation will familiarize you with the BMPs, and so study up on your vocal artist recognition skills.				
	All participants				
	Safe Living: Self Protection for Those Working with the Public- the principles of Safe Living (Awareness, Confidence, Training, and Support Networks) are universal. Dr. Shovic developed them using the life-skills of people who take risks for a living: firefighters, martial artists, soldiers, law enforcement officers, and medical personnel. Each seminar is an integrated, solution-centered package, blending information-sharing, scenario-building, "hands-on" training, and participant-sharing.	Henry Shovic, PhD	Safe Living Seminars, LLC	Parlor G	
	All participants				
	Federal Aid 101- FHWA overview, Federal-Aid ineligible items, FHWA full oversight vs. non-full oversight.	Bob Seliskar Gene Kaufman Jeff Patten	FHWA FHWA FHWA	Bitterroot River Rms B & C	
	All participants				
11:00- 11:50	MicroStation Custom Programs for the MDT -demonstrate the MDT macros and VBA's used to create plans for all the design areas.	Bob Cummings		Parlor D	

Preconstruction participants

11:00-11:50	Kalispell Bypass 28 to 76 in 1 Meeting: 1994- 2006 Preconstruction participants	Mitch Stelling Jason Giard Kathy Harris Mary Stelling Dwane Kailey		Parlor F
12:00 - 1:00 pm	Lunch - on your own			
1:00-1:50 MDT ONLY	Impacts of ROW Fencing on Wildlife Movement All participants	Larry Sickerson Pat Basting Deb Wambach		Parlor C
	US 2 Havre Reconstruction Project: Construction Traffic Management- this presentation will touch on new FHWA regulations on Work Zone Safety and Mobility, coordination program with local agencies and business owners, traffic phasing and management plan design, and specific construction constraints and challenges.	John Pavsek	Morrison- Maierle	Parlor D
	All participants			
1:00-5:00 (4 hr. class)	High Performance Concrete (HPC): How It Impacts MDT	Mike Praul Lou Triandafilou	FHWA FHWA	Parlor A
MDT ONLY	All participants	Triandamou		
1:00-2:50	Cold In-place Recycling, Slurry Seals, and Microsurfacing- cold in-place recycling, slurry seals, and microsurfacing are cost effective alternatives for scheduled and preventative maintenance projects. Cold in-place recycling (CIPR) is an alternative to asphalt overlay or mill and fill treatments on low-volume roads. CIPR has been used by the Maintenance Division, and will be used by the Engineering Division on a few projects next construction season. Slurry sealing is a more durable alternative to chip sealing. Micosurfacing is an alternative to plant mix seals or chip seals on high-volume roads and can also be used for rut filling. This presentation will given by experts from the industry.	Chuck Valentine Pierre Peltier	Valentine Surfacing SemMaterials, L.P.	Parlor B
	All participants			
	CTEP: The Process from Start to Finish- Describe the federal laws and funding for CTEP. How Montana administers the program. How projects are developed, approved, programmed, designed, constructed, and closed out.	Mike Wherely David C. Larson LeRoy Wosoba		Parlor E
	All participants	_		
	Environmental Permitting: Preconstruction thru Construction	Bill Semmens Tom Gocksch Ray Studebaker		Parlor G
	All participants			

1:00-2:50	Overview of the Claims Tracking System Construction participants	Scott Senger		Bitterroot River Rms B & C
	MDT's New Quality Assurance Software Suite: Tools to Support the Quality Inspection Process- this class will cover the process flow for using the new MDT QA Software Suite including contract file creation (selecting material items and personnel), contract file test specification creations (setting, editing, reviewing and locking material item tests and test specifications), and test data operations (test data entry, locking, and results reporting). Construction participants	Tim Boucher Riley Phelps		Missoula District Const. Conference Room
1:00-3:50 (3 hr. class)	Guardrail Design- review basic design philosophy for all types of guardrail (cable, w-beam, concrete barrier, and box beam) used in Montana, including terminal end sections and bridge approach sections. Review basic design parameters (clear zones, rail deflection upon impact, snow drifting, costs, etc.) and proper selection of guardrail for use in the field. Review the importance of the widening behind the guardrail posts and what to do if the widening is not obtainable. Explain the use of special guardrail design items such as anchored concrete barrier rail, stiffened rail sections, impact attenuators, and bridge approach sections.	Scott Keller		Parlor F
2:00-2:50	Truss Rehab Projects in Montana- Lessons Learned- HDR Engineering performed rehab design for three historic truss bridges in Montana. Two of these were constructed before 1900 and one was constructed using Italian prisoners of war as labor. Restoring these bridges offered unique challenges including maintaining the historic character of the bridges, finding existing plans, finding physical properties of old members, heat shortening, straightening and repair, reconstruction of badly deteriorated built-up steel members, special jacking methods for light member trusses without end floor-beams, bearing solutings, removal and over coating of old lead based paint, attaching AASHTO rated rail to light timber decking, concrete repair, and encasement and replacement of concrete columns.		HDR Engineering	Parlor C
	Contract Time Determination- the class will discuss a process to determine contract time. It will include a review of a typical project sequence, average production rates and factors that affect contract time.	Paul Ferry Lisa Durbin		Parlor D
	Preconstruction participants	_		

BREAK

2:50 - 3:00

BREAK

3:00-3:50	Tips for Successful Consulting with MDT- this session is intended to provide consultants with information and guidance on how to be successful working with MDT. It's the little things that make a difference, those unwritten rules and seldom talked about ways of doing business, that allow consultants to be successful in delivering projects and developing relationships with MDT. This session will be rather informal and will provide consultants ample opportunity to ask questions in a round-table type of format with the Consultant Design Engineer. While the topic of how to get work will be covered briefly, the focus of the session is geared towards working with MDT once under contract.	Tom Martin	Bitterroot River Rms B & C
	Recommended for design consultants		
3:00-5:00 <i>MDT ONLY</i>	Lab Roundtable Discussion Construction participants	Matt Strizich Scott Barnes Kevin Christensen	Parlor B
MDT ONLY	Survey Issues Roundtable- presentation on the Merits of Robotic Total Stations vs. RTK. A question & answer session on any survey related issue. All participants	Dave Davis Ralph Jones John Hoechst Rob Mihalovich Mark Iwaniak Mark Roedel Mick Brown	Parlor C
	Specifications: Cuss and Discuss - this session will be an ongoing set of informal discussions on various specifications.	Lisa Durbin Dan Smith Stefan Streeter	Parlor D
	Construction participants		
	Conveniences Sorely Needed: A History of Montana's Highway Bridges- this presentation will provide a brief, illustrated overview of the history of bridge construction in Montana from 1860 when John Mullan built the first bridges in the state up to the dawn of the Interstate era in 1956. All participants	Jon Axline	Parlor E
MDT ONLY	MSE Walls- topics included in this presentation are state-of-the-practice design tools and construction practices to for mechanically stabilized earth technology for routine use of cost-effective earth retention structures. Construction participants	Brian Collins	Parlor G
4:00 5:00		Story Hill	Parlor F
4:00-5:00	The Municipal Storm Water Program: MDT's Commitments and Obligations- the session will be an introduction to the new MS4 (Municipal Separate Storm Sewer System) program, how it affects the department, and what we need from everyone in order to comply.	Staty Filli	ralioi r
	Preconstruction participants		

4:00-5:00

The Consultant's Role in Construction:
Columbus South- A case study of the Columbus –
South Project and the involvement of the consultant
designers in the construction process.

John Shoff Wade Irion Greg Gabel HKM Bitterroot
River Rms
B & C

Construction participants

Montana Department of Transportation

